

## Start - Runup

<b>Before Starting Engine</b>	
Safety Belts	ON
Circuit Breakers	IN
Radio Master	OFF
Electrical Equip	OFF
Flaps	UP
Fuel	FULLEST
Brakes	SET
Propellor	FORWARD
Master Switch	ON
Strobes/Beacon	ON
Fuel Pump	ON

<b>Cold Start</b>	
Throttle	1/4-1/2 inch
Mixture	RICH 3 sec. (until fuel flow, then IDLE)
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1,000 RPM

<b>Hot Start</b>	
Throttle	1/4 inch
Mixture	IDLE
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1,000 RPM

<b>Flooded Start</b>	
Fuel Pump	OFF
Throttle	FULL
Mixture	IDLE
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1,000 RPM

## PA28R-200

<b>Before Taxi</b>	
Oil Pressure	GREEN
Fuel Pump	OFF
Lights	AS REQ
Gear Lights	CHECK
Radio Master	ON/CHECK
Transponder	STANDBY
Brakes	CHECK

<b>Pre Takeoff - Runup</b>	
Controls	CHECK
Instruments	CHECK
Fuel	FULLEST
Throttle	2000 RPM
Magnetos	CHECK < 175 RPM drop each < 50 RPM between
Propellor	CYCLE x3 RPM drop Manifold increase Oil pressure drop
Alternate Air	CHECK
Vacuum	4.8-5.1
Oil Temp	GREEN
Oil Pressure	GREEN
Fuel Pump	OFF
Fuel Pressure	CHECK
Fuel Pump	ON
Throttle	1000 RPM
Ammeter	CHECK
Annunciator Lights	PRESS to test

AUN CTAF	122.7
AUN ASOS	119.375
AUN ELEVATION	1538 feet
NorCal	125.4

## Takeoff - Landing

<b>Before Takeoff</b>	
Safety Belts	ON
Door/Window	LATCH
Auto-pilot	OFF
Flaps	SET
Trim	SET
Lights	ON
Fuel Pump	ON
Transponder	ALTITUDE
Propellor	HIGH RPM
Mixture	RICH

<b>Normal Takeoff</b>	
Rotate	60-70
Gear	UP
Climb V <sub>y</sub>	100
<b>At 1000' AGL</b>	
Throttle	25"
Propellor	2500RPM
Climb enroute	110

<b>Top of Climb</b>	
Manifold press	SET
Propellor	SET
Fuel Pump	OFF
Mixture	SET
Landing Light	OFF
Gauges	GREEN

V <sub>x</sub> - gear down	85
V <sub>y</sub> - gear down	95
V <sub>x</sub> - gear up	96
V <sub>y</sub> - gear up	100
V <sub>ldmax</sub> - Best Glide	105
V <sub>fe</sub> - Flaps Extend	125
Landing Gear Retract	< 125
Landing Gear Extend	< 150
Demonstrated x-wind	17

## PA28R-200

<b>Before Landing</b>	
Auto-pilot	OFF
Landing Light	ON
Fuel Pump	ON
Gas	FULLEST
Undercarriage	3 GREEN
Mixture	SET
Propellor	SET
Seat belts	ON
Flaps	< 125
Final Approach	90

<b>After Landing</b>	
Flaps	UP
Fuel Pump	OFF
Lights	As Req.
Transponder	STBY

<b>Engine Shutdown</b>	
Radio Master	OFF
Lights	OFF
Mixture	CUTOFF
Magnetos	OFF
Master Switch	<b>OFF</b>
Hobbs Meter, Tach	<b>RECORD</b>
Tiedown, chocks, cover	<b>INSTALL</b>

<b>Emergency Gear Extension</b>	
Panel lights - daytime	OFF
Gear indicator bulbs	CHECK
Airspeed	< 100
Gear selector **	DOWN
Emergency gear lever	DOWN
<b>** for emergency practice, pull gear pump breaker, gear selector UP until emerg 3 green, then DOWN, breaker in</b>	